

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



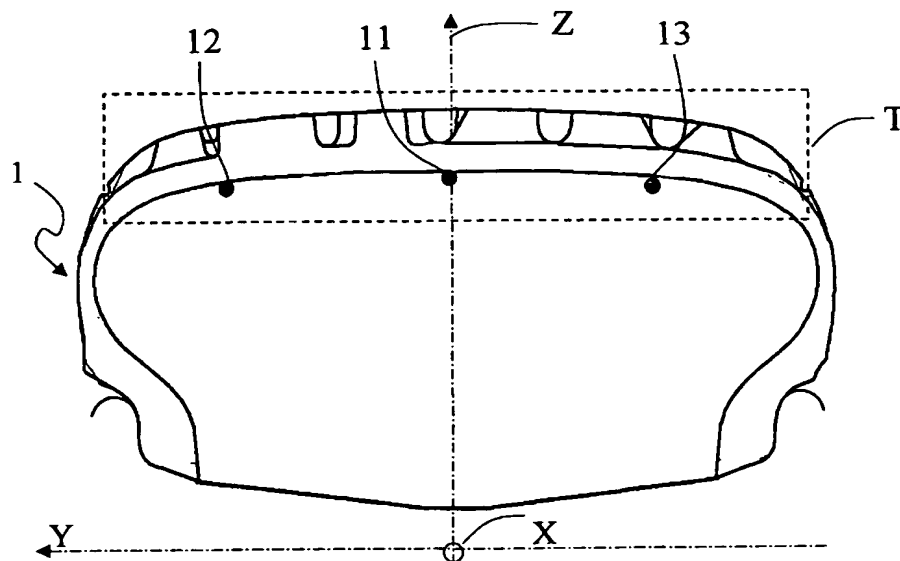
(43) International Publication Date
9 October 2003 (09.10.2003)

PCT

(10) International Publication Number
WO 03/082644 A1

- (51) International Patent Classification⁷: **B60T 8/00**
- (21) International Application Number: **PCT/EP03/03088**
- (22) International Filing Date: **25 March 2003 (25.03.2003)**
- (25) Filing Language: **English**
- (26) Publication Language: **English**
- (30) Priority Data:
PCT/EP02/03498 28 March 2002 (28.03.2002) EP
- (71) Applicant (for all designated States except US): **PIRELLI PNEUNATICI S.P.A. [IT/IT]; Viale Sarca, 222, I-20126 Milano (IT).**
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **BRUSAROSCO, Massimo [IT/IT]; Pirelli Pneumatici S.p.A., Viale Sarca, 222, I-20126 Milano (IT). FIORAVANTI, Anna, Paola [IT/IT]; Pirelli Pneumatici S.p.A., Viale Sarca, 222, I-20126 Milano (IT). MANCOSU, Federico [IT/IT]; Pirelli Pneumatici S.p.A., Viale Sarca, 222, I-20126 Milano (IT).**
- (74) Agents: **BOTTERO, Carlo et al.; Pirelli S.p.A., Viale Sarca, 222, I-20126 Milano (IT).**
- (81) Designated States (national): **AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.**
- (84) Designated States (regional): **ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).**
- Published:**
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: **METHOD AND SYSTEM FOR MONITORING A TYRE DURING THE RUNNING OF A VEHICLE**



(57) Abstract: A method for monitoring the behavior of a tyre during running, the method comprising the steps of: acquiring and storing, at least temporarily, a first curve representing the acceleration profile of a first point of the tread area of said tyre, located on a meridian plane of said tyre; acquiring and storing, at least temporarily, at least a second curve representing the acceleration profile of a second point of the tread area of said tyre, located substantially on said meridian plane; comparing said first and second curves, or parameters derived thereof; determining the behavior of said tyre from said comparison.



WO 03/082644 A1